

# EMC AVAMAR BACKUP AND RECOVERY FOR DESKTOPS AND LAPTOPS

A proven solution to protect and deduplicate data—from the edge to the data center

## ESSENTIALS

Efficient backup and recovery with integrated data deduplication for desktops and laptops offers:

- Fast, daily full backups via existing network links
- End-user, self-service recovery
- Integrated client and global data deduplication
- Reduced network traffic and disk storage
- Non-disruptive backups
- Centralized management and data security
- Support for thousands of users and multiple languages
- High availability and reliability (through Avamar servers)
- A scalable Avamar solution for VMware, NAS, remote offices, and desktop/laptop systems

Leading Fortune 500 companies rely on EMC® Avamar® for fast, daily full backups of physical and virtual servers in their data center environments. Deploying Avamar on desktop and laptop systems delivers the same enterprise-class backup and recovery capabilities, while enabling end users to recover their own data without IT staff intervention. Easy to install and manage, Avamar scales across your entire organization to simplify management, and integrated data deduplication leverages existing network links while significantly reducing backup storage costs.

## BACKUP FOR A DIVERSE AND GROWING WORKFORCE

The number of desktop and laptop users continues to grow exponentially as expanding wireless networks and infrastructure enable employees to work outside of traditional corporate offices. As a result, IT administrators are faced with the daunting task of implementing a reliable backup and recovery solution for these users. Traditional methods for backing up desktops and laptops are available, but they often come up short. They do not meet the needs of corporate IT professionals or end users.

Traditional desktop and laptop backup methods include:

- **Network share:** users manually copy data to a network drive for integration with server-based backups. This approach is unreliable and difficult to enforce.
- **Removable media:** CDs, DVDs, external hard drives, and memory sticks rely on users to complete the backup process, can lack security, and put data outside of IT control.
- **Traditional backup:** using standard backup software requires recurring backups at specific times, which may disrupt user productivity, or systems may be offline, making it unreliable.
- **Online backup services:** limited network bandwidth can make this very slow, and enterprise standards and centralized management are out of the IT staff's control.

Each of these traditional methods has its drawbacks and incomplete or failed backups put data at risk. Moreover, the backup and recovery of data is inconvenient for both the user who has the burden of additional administrative tasks, and IT staff when help-desk intervention is needed.

As an alternative, a next-generation backup solution is needed that delivers cost-effective, scalable, and transparent data protection for you and your users.

## EMC AVAMAR SOLUTION

Unlike traditional methods, Avamar delivers fast, daily full backups in a fraction of the time. By deduplicating backup data at the client—before it is transferred across the network—Avamar only sends new, unique sub-file data segments. This enables daily full backups, even across slow or congested IP networks. In addition, Avamar deduplicates backup data globally, across servers, desktops, laptops, and offices worldwide, to reduce the total backend disk storage by up to 50x. For security, Avamar can encrypt backup data when in flight across the network and at rest on disk. Avamar’s efficient use of available storage provides the benefits of long-term retention and fast disk-based recovery, while dramatically lowering capital and operating expenses including floor space, power, and cooling.

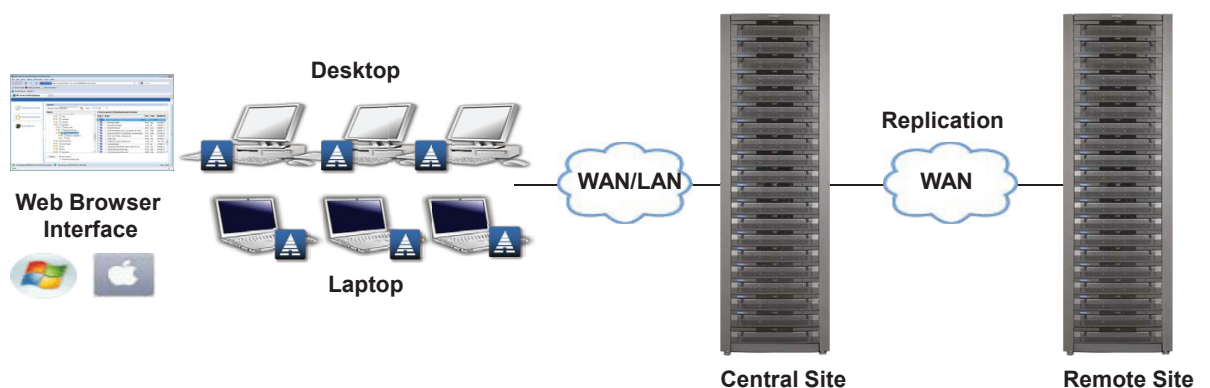
## EASY TO USE, EASY TO RECOVER

Avamar is easy to use, making it ideal for desktop and laptop users as well as your IT organization. Daily full backups can occur automatically when a user logs in during normal backup windows, or users can initiate their own backups on demand. End users can continue working without interruption since Avamar runs in the background and can back up open files. Integrated data deduplication reduces network traffic so daily full backups occur very quickly.

Avamar also enables end users to quickly recover their own data anywhere, anytime. An intuitive interface provides backup history and the integrated search engine enables users to locate files quickly—without looking through individual folders. And recovery is always just one step, since Avamar eliminates the hassle of restoring the last good full and subsequent incremental backups to reach the desired recovery point. As a result, end users can recover their own data quickly and easily without lengthy calls to the IT help desk.

**“With Avamar, remote desktops and laptops get daily full backups that complete in just minutes. And end-user, self-service recovery eliminates thousands of calls to the help desk each month. Avamar makes our users and IT staff more productive.”**

MIKE MARSHALL, SENIOR MANAGER  
PRIVATE CLOUD INFRASTRUCTURE GROUP  
GLOBAL IT, EMC CORPORATION



With Avamar, end users can restore their data anytime, from anywhere

## EASY TO MANAGE

The Avamar Enterprise Manager interface enables IT staff to easily manage and monitor backups from the corporate network or via the Internet. With support for thousands of clients and multiple languages, administrators can implement and enforce policies globally or at the group level. Desktop and laptop system names can also be automatically imported into Activation Manager from Active Directory. Avamar leverages existing IP networks, eliminating the need to upgrade infrastructure, while ensuring that important desktop and laptop data is fully protected.

## ENTERPRISE-CLASS DATA PROTECTION

Avamar server integrity is verified twice daily via internal system checkpoints, and recoverability of all backup data is verified daily as well, so there are no surprises. In addition, Avamar servers can implement patented redundant array of independent nodes (RAIN) technology for high availability. And you can efficiently and securely replicate backup data to another Avamar server daily for disaster recovery via existing IP network links.

## SINGLE, SCALABLE SOLUTION

Unlike most other solutions, the Avamar server utilizes a scalable grid architecture that enables linear performance and storage increases by simply adding storage nodes. Each incremental Avamar node increases CPU, memory, I/O, and disk capacity for the entire grid. When adding disk storage, data is automatically load-balanced online—without compromising deduplication efficiency or system performance.

Developed to solve the challenges associated with traditional backup, EMC Avamar backup and recovery software, equipped with integrated global, client-side data deduplication technology, provides fast, daily full backups for VMware® environments, NAS systems, remote offices, and desktops/laptops.

## SUPPORTED DESKTOP AND LAPTOP PLATFORMS

### OPERATING SYSTEMS

- Apple Macintosh OS X
- Microsoft Windows 7 (Enterprise, Professional, Ultimate)
- Microsoft Windows Vista
- Microsoft Windows XP Professional

### WEB BROWSERS

- Apple Safari
- Microsoft Internet Explorer
- Mozilla Firefox

## CONTACT US

Please contact EMC for further details regarding certified hardware platforms.

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